

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method for identifying a compound that modulates angiogenesis, the method comprising the steps of:
- (i) contacting the compound with a ILKAP polypeptide, the polypeptide encoded by a nucleic acid that hybridizes under stringent conditions to a complement of a nucleic acid encoding a polypeptide comprising an amino acid sequence of SEQ ID NO:2, wherein the ILKAP polypeptide has an anti-angiogenic phenotype and wherein the stringent conditions comprise a hybridization step selected from the group consisting of 50% formamide, 5x SSC, and 1% SDS, incubated at 42°C, and 5x SSC, 1% SDS, incubated at 65°C, followed by a wash step in 0.2x SSC, and 0.1% SDS at 65°C; and
- (ii) determining the functional effect of the compound upon the ILKAP polypeptide, whereby a difference in the functional effect as compared to the functional effect in the absence of the compound indicates that the compound modulates angiogenesis.
2. (Original) The method of claim 1, wherein the functional effect is determined in vitro.
3. (Original) The method of claim 2, wherein the functional effect is a physical effect.
4. (Original) The method of claim 2, wherein the functional effect is determined by measuring ligand binding to the polypeptide.
5. (Original) The method of claim 2, wherein the functional effect is a chemical effect.
6. (Original) The method of claim 5, wherein the functional effect is determined by measuring phosphatase activity of the polypeptide.

Appl. No. 09/935,124
Amdt. dated May 27, 2003
Reply to Office Action of February 25, 2003

PATENT

7-13. (Withdrawn)

14. (Original) The method of claim 1, wherein modulation is inhibition of angiogenesis.

15. (Original) The method of claim 1, wherein the polypeptide is recombinant.

16. (Original) The method of claim 1, wherein the polypeptide comprises a sequence of SEQ ID NO:2.

17-18. (Withdrawn)

19. (Original) The method of claim 1, wherein the compound is a small organic molecule.

20-27. (Withdrawn)

B-1
Concl